



PAVEMENT LEGEND:

- PAVEMENT TYPE 1- CONCRETE HANDSTAND
- PAVEMENT TYPE 2- PAVED WALKWAYS
- "TERRAFORCE" BLOCK RETAINING WALL
- DIAMOND DOWEL JOINT
- SAWCUT JOINT
- *REFER TO SECTIONS FOR LAYERWORKS DETAILS

PROJECT TEAM

Project Managers: Engineering Advice & Services
73 Heugh Road
Walmer
Port Elizabeth, 6070
Tel: 041 581 2421
Marcus Niemand
marcus@easpec.co.za

Architect: INTSIKA architects
Intsika Architects
1st Floor, Office 4A
Leadwood House,
Cedar Square, Bonza Bay Road,
Beacon Bay, East London 5241
Tel: 043 726 7786
Cell: 082 872 8748
Rob Gillard
rob@intsika.com

Quantity Surveyors: PULANA BAXTER & ASSOCIATES
PULANA BAXTER & ASSOCIATES
QUANTITY SURVEYORS & PROJECT MANAGERS
30 Chamberlain Road,
Berea, East London 5241
Tel: 043 721 0984
Cell: 083 284 2488
Mark Baxter
mark@pba.co.za

Civil Engineers: CSE Consulting Engineers
7B Derby Road, Berea,
East London
5241
Tel: 043 726 3565
JPC van Wyk
e@cse-consult.co.za

Structural Engineers: ZNM Consulting Engineers
8A Bonza Bay Road,
Beacon Bay,
East London 5241
Tel: 087 350 4035
Cell: 086 608 3511
Mzukisi Mashala
mzukisi@znmeng.co.za

Electrical & Mechanical Engineers: CARIFRO Consulting Engineers
CARIFRO Consulting Engineers
Green Building Consultants
Tel: 043 743 8266
Cell: 082 900 7514
Mchele Rwarola
mikeri@carifro.com

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CLIENT

east london idz
business streamlined

Gary Whittaker
Project Manager
Tel: 043 7028247
Cell: 082 34632299
E-mail: gary@eidz.co.za

PROJECT

**MANUFACTURING
FACILITY IN ZONE 1A
EB-DRG-11-20-Z1A**

DRAWING

PAVEMENT LAYOUT

PROJECT NO	E813	REV	0
DWG NO.	003	REV	0

1. GENERAL NOTES:

1.1. All drawings to be read in conjunction with the architectural, mechanical, electrical and civil engineering drawings.

1.2. Refer to the drawings of the mechanical and electrical engineer for openings and services to be cast into concrete structures, walls, floors and beams etc. The positions and dimensions of these openings must be approved by the engineer prior to placing the concrete.

1.3. All dimensions to be checked on site before construction of the affected components commences. Any discrepancies must be reported to the engineer without delay.

1.4. Drawings must not be scaled.

1.5. The design on this drawing remains the property of the CSE Consulting (Pty) Ltd. copyright is reserved.

2. GENERAL APPLICABLE STANDARDS AND SPECIFICATIONS:

The contractor must obtain a hardcopy of all relevant part of the SANS 2007 series before construction commences.

1.1. Earthworks to be done in accordance with SANS 2001-BE1:2008

1.2. Road and paving layers works to be in compliance with SANS

1.3. Structural concrete work to be in compliance with SANS 2001-CC1:2012

1.4. All masonry walls to comply with SANS 2001-CM1:2011

1.5. Foundations, walls, strip footings and bases to be in compliance with SANS 2001-CMD:2011

1.6. Earthworks and bedding of pipes and conduits to be in accordance with SANS 2001-CP1:2011

1.7. Water pipes to be in accordance with SANS 2001-CP2:2010

1.8. Sewer installations to be in compliance with SANS 2001-GP4:2010 and SANS 10400

1.9. Storm water structures and systems to be in accordance with SANS 2001-DPS:2010

1.10. Precast concrete paving to be in accordance with SANS 1200-MU (Segmented Paving)

1.11. Kerbing and channelling in accordance with SANS 1200-MK (Kerbing and Channelling).

3. CONCRETE WORK:

3.1. GENERAL:

- All concrete work to be carried out in accordance with SANS 2001-CC1:2012 Edition 1.1.
- Levels indicated on structural drawings are finished concrete levels (FCL).
- Concrete mix designs and samples aggregates to be submitted to the engineer for prior approval.
- Concrete must be designed to within the limits indicated in Table 4 of SANS 2001-CC1.
- Concrete cube testing to be taken at frequencies indicated in Clause 5.1.3 of SANS 2001-CC1.
- Concrete to provide 30 MPa concrete cover blocks to ensure correct cover and position of reinforcement.
- Fabricated mesh reinforcement shall be securely supported on either concrete spacer blocks or mild steel bar chairs. No depth control to hand is acceptable. Mesh to be installed strictly in accordance with the depth positioning on the drawings. If not indicated, the cover to mesh reinforcement will be 20mm.
- Reinforcing fixed in final position to be inspected and approved in writing by the engineer before concrete is cast.
- Concrete to be used for the length of time specified in Table 8 of SANS 2001-CC1.
- All excavations to be approved in writing by the engineer before any concrete for foundations is cast.
- Positions of construction joints in concrete are subject to the prior approval of the engineer.
- No deviations from structural drawings or alterations to the structure permitted without the written consent of the engineer.

3.2. CONCRETE STRENGTHS:

In instances where cube strengths of concrete components are not specified on drawings, the 28th day in cube strength to be as follows:

Unreinforced Components:

- a) Foundations 25 MPa
- b) Mass concrete in situ under foundations 10 MPa
- c) Pipe concrete encasing 20 MPa
- d) Equipment Chassis 25 MPa
- e) Power Roated industrial floors 30 MPa
- f) Concrete Handrails and ramp 30 MPa

Reinforced Components:

- a) RC strip foundations 25 MPa
- b) RC foundations and bases 30 MPa

Concrete Cover to Reinforcing:

- a) Suspended beams, sides and soffits 20mm
- b) Ground beams with surfaces 20mm
- c) Bases 20mm
- d) Vertical bars in walls 20mm
- e) Main bars in earth surfaces 20mm

3.4. DEGREE OF ACCURACY:

- Tolerances to be within the limits of Degree of Accuracy 10 in Table 11 of SANS 2001-CC1.
- All surfaces formed with smooth shuttling or steel floated (ST) to be within Degree of Accuracy 1.
- All concrete floors that will not receive a topping to be within Degree of Accuracy 1.

3.5. PROPPING:

- No shuffling or propping to be taken out without written consent of the engineer.
- No propping to be taken out before proof or concrete strength is submitted and approved by the engineer.